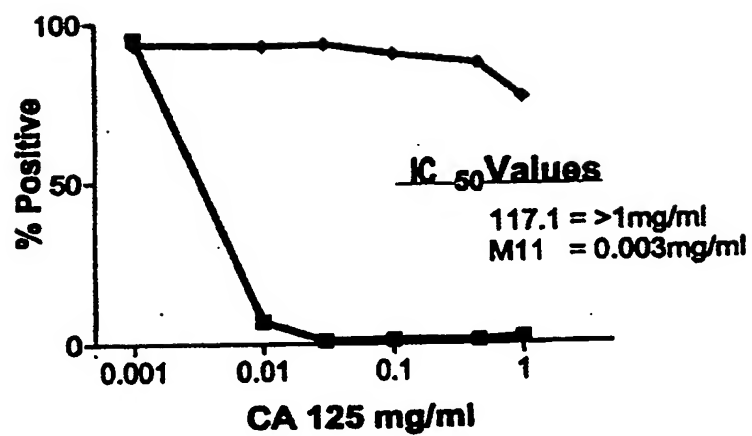


FIG. 1

1   AAQPARRRR TKLFTHRSSV STTSTPGTPT VYLGASKTPA SIFGPSAASH  
                                   |→  
 51   LLILFTLNFT ITNLRYEEM WPGSRKFTT ERVLQGLLRP LFKNTSVGFL  
 101   YSGCRLLLR PEKDGKATGV DAICTHRPDP TGPGLDREQL YLELSQLTHS  
                                   ←|→  
 151   ITELGPTTLD RDSLYVMGFT ERSSVPTTST GVVSEEPFTL NPTINMLRYM  
 201   ADMGQPGSLK PNITDNVAKH LLSPLFQSS LGARYTGCRV IALRSVMKA  
 251   ETRVLLCTY LQPLSGPGLP IKQVFHLSQ QTHGITRLGP YSLDKDSLVL  
                                   ←|→  
 301   NGYNERGPDF PPTTPKPATT FLPPLEATT AMGYHLKTLT LNTTISNLQY  
 351   SPDMGKGSAT FNSTEGVLQH LLRPLFQKSS MGPFFLGOOL ISLRPEKDKA  
 401   ATGVDTTCTY HPDFVGRGLD IQQLYWELSO LTHGVTLQGF YVLDRDSLFI  
                                   ←|→  
 451   NGYAPONLSI RGEYQINETH VMNLSNEDP TSSEYITLLR DIQDKYVILY  
 501   KGSOLEDTFR FCLVNLAMD SYLVTVKALF SSNLOPSLVE QVFLQKINA  
 551   SPFWLGSTYO LYDIKVTENE SSYVQPTSSS STORFYLHFT ITNLEYSQDK  
 601   AQRGTTNYOR NKNMIEDALM OLERNSSIKS YRSDCOVSTF RSYENRHRNG  
 651   YDSLGNESPL ARRYDRVAIX EEFLEMTENG TOLONETLDR SSYLVGXYF  
 701   NRNEELTNS ADIQHSGGRS SLEGPRFEOK LISPEDLNKH TGHNNHHH

FIG. 2

1   AAQPARRRR <sup>1-</sup>TELETRSSV STTSTGTET VYLGASKTPA SIEGSAASH  
 51   LLILETLNET ITNLYEENM WGSRKNTT ERVLOGLLRP LETNTSVGEL  
 101   YSGRLTLR PEKDEATGV DAICTERDDP TGGLOREOL YLELSOLTHS  
       -1-  
 151   ITELGPTLD RDSLYNGFT HRSVPTTST GYVSEEPFL NETQNLRYM  
 201   ADMGORGSLK ENITATANK LLSELDORS LGARTTCRV IALESVKGA  
 251   STRVDLLCY LOPLSGGGLP IKONTHELQ OTGTRGLP YSLDASLYL  
       -1-  
 301   MGYNERGDE PPTPKRATT FLPLSRATT AMGHKTLT INFTISNLOX  
 351   SPDMGGSAT ENSTGVLOH LLRLFOSS MGFFYLGCOL ISLAEKGA  
 401   ARGVDCTY HEDPVGGLD IOOLYNELQ LTRGYDOLGE YVLDRSLFI  
       -1-  
 451   MGYARONLSI RGEYDNEHI VNNLSNPDV TSEYITLLR DIODAVTLY  
 501   KGSOLHDTF ECLVTNLTND EYLVTVKALF SSNLOPSLVE OVFLDKTNA  
 551   SEFWLGSTYO LYDIKVTME SSYOPTSSS STORFOLNET ITNLYSODK  
 601   AOPGTNYOR KERNIEDALN OLFNRSISX YFSDCOVSTF RSVEXRHTG  
 651   VDSLCHSEFL ARVDRAVAY EEFLEMTNG TOLONITLDR SSVLYDGYP  
 701   NNNEPLTNS DLPFNAVILI GLAGLLGIT CLICGLVTT HRRKEGEXN  
 751   VQQCPGYTQ SHLDLMDLQ SADIQSGGR SSLEGPRFEQ KLSZEDLNM  
 801   HTGHHHHR

FIG. 3

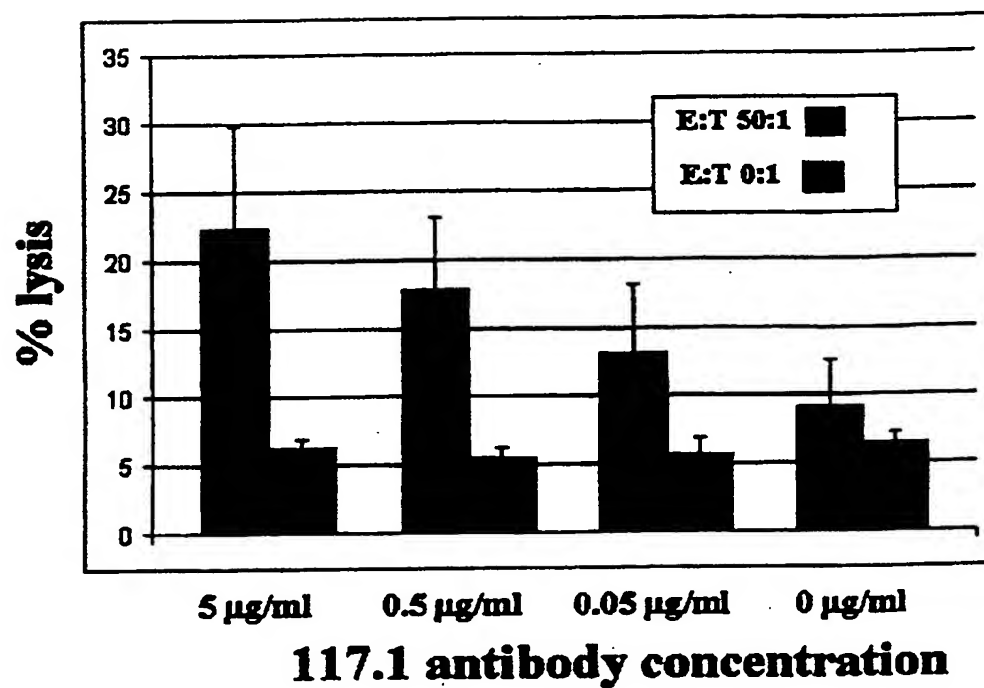
**FIG. 4**

FIG. 5A

117.1 Light chain:

ATGAAGTTGCCTGTTAGGCTGTTGGTGCTGATGTTCTGGATTCCCTGGTTCAGCA  
GTGATGCTGTGATGACCCAAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCA  
GGCTCCATCTCTTGCAGATCTAGTCAGAGCCTTGTACACAGTAATGGAAACACC  
TATTTACATTGGTACCTGCAGAAGCCAGGCCAGTCTCCAAAACTCCTGATCTACA  
AAGTTTCCAACCGATTTTCTGGGGTCCAGACAGGTTCAGTGGCAGTGGATCAGG  
GACAGATTTCACTCAGGATCAGCAGAGTGGAGGCTGAGGATCTGGGAGTTTA  
TTTCTGCTCTCAAAGTAGATATGTTCCGTGGACGTTCCGTGGAGGCACCAAGCTG  
GAAATCAAA

FIG. 5B

117.1 Heavy chain:

ATGGGCAGGCTTACTTCTTCATTCCCTGCTACTGATTGTCCCTGCATATGTCCCTGTC  
CCAGGTTACTCTGAAAGAGTCTGGCCCTGGGATATTGCAGCCCTCCAGACCCCTC  
AGTCTGACTTGTTCCTTCTCTGGGTTTTCACTGAGCACTCCTGGTATGGGTGTAGG  
CTGGATTGTCAGCCATCAGGGAAGGGTCTGGAGTGGCTGGCACACATTGGTG  
GGATGATTTCAAGCGCGATAATCCAGCCCTTAAGAGCCGACTGACTATCTCTAAG  
GATACCTCCAGCAGCCAGGTTTTCCTCAAAATCGCCAGTGTGGACACTGCAGATA  
CTGCCACATATTACTGTGTTTCGAGTGGATGGTAACTTCCCTCTCCTGGTATTTCGAT  
GTCTGGGGCGCTGGGACCACGGTCACCGTCTCCTCA

FIG. 5C

117.1 Light chain:

MKLEPVRLLVLMFWIPGSSSDAVMTQTPLSLFVSLGDQASISCRSSOSLVHSNGNTYL  
HWYLOKPGQSPKLLIYKVSNRFSGVPDFRSGSGSDFTLRISRVEADLGVIYFCSS  
RYVPWTFGGGTKLEIK

FIG. 5D

117.1 Heavy chain:

MGRLTSSPELLLVPAAYVLSQVTLKESGPGILQPSQTLSTCSFSGESLSTPGMGVGVIR  
QPSGKGLEWLAHIWWDDEKRDNPALKSRLTISKDTSSSQVFLKIASVDTADTATYYC  
VRVDCNFIWSYFDYWGAGTTVTVSS

FIG. 6A

368.1 Light chain :

ATGAAGTTGGCTGTTAGGCTGTTGGTGCTGATGTTCTGGATTCCCTGCTTCCAGCAG  
TGATGTTGTGATGACCCAAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCAA  
GCCTCCATCTCTTGACAGATCTAGTCAGAGCCTTGAACGCACTAATGGAAACACCT  
ATTACATTGGTACCTGCAGAAAGCCAGGCCAGTCTCCAAACTCCTGATCTACAA  
AGTTTCCAGCCGATTTTCTGGGGTCCCAGATAGGTTTCAGTGGCAGTGGATCAGGG  
ACAGATTTCACTCAAGATCAGTAGAGTGGAGGCTGAGGATCTGGGAATTTATT  
TCTGTTCTCAAACTACACATGGTCTCCGACGTGCGGTGGAGGCACCAAGCTGGA  
AATCAAA

FIG. 6B

368.1 Heavy chain:

ATGGGATGGATCTGGATCTTCTCTTCTCCTGTCAGGAACTGCAGGTGTCCACTC  
TGAGGTCCAGCTGCAGCAGTCTGGACCTGAGTTAGTGAGGACTGGGGCTTCAGT  
GAAGATATCCTGCAAGGCTTCTGGTTACTCATTCACTGGTTTCTACATGCACTGG  
GTCAAGCAGAGCCTTGGAAAGAGCCTTGAGTGGATTGGATATGTTAGTTGTTACA  
CTGGTGCTACTACCTACACCCAGAAAGTTCAAGGGCAAGGCCACATTACTGTTGA  
CACATCCTCCAGCACAGCCTACATGCAACTCAACAGCCTGACATCTGAAGACTCT  
GCGGTCTATTACTGTGCAAGAGAAGGGGATTACTATTCTATGGACTTCTGGGGTC  
AAGGAACCTCAGTCACCGTCTCCTCA

FIG. 6C

368.1 Light chain:

MKLPVRLLVLMFWTPASSSDVVMTQTPLSLPVSLGDQASISCRSSOSLERTNGNTYLH  
WYLQKPGQSPKLLIYKVSSRESGVPRFSGSGSDTDFLKISRVEAEDLGIYFCSTTH  
GPPTCGGGTKLEIK

FIG. 6D

368.1 Heavy chain:

MGWTWTELELLSGTAGVHSEVQLQQSGPELVRTGASVKISCKASGYSEFTGEYMEHWV  
KQSLGKSLEWIGYVSCYTGATTYTOKEFGKATFTVDTSSSTAYMQLNSLTSEDSAVY  
YCARQDYYSMDFFWGQGTSTVSS

FIG. 7A

501.1 Light chain:

ATGGACATGAGGGCCCTGCTCAGTTTTTTGGGATCTTGTTGCTCTGGTTTCCAGG  
TATCAGATGTGACATCAAGATGAOCCAGTCTCCATCGTCCATTATGCATCGCTG  
GGAGAGAGGGTCACTATAAAGTTCGCAAGGCGAGTCAGGACATTAAAAGCTATTIA  
AGCTGGTACCAACAGAAACCCTGGAAATCTCCTAAGACCCTGATCTATTATGCAA  
CAACCTTGGCAGATGGGGTCCCATCAAGATTTCAGTGGCAGTGGATCTGGGCAAG  
ATTATTCTCTAATCATCAACAGCCTGGAGTCTGACGATATAGCTACTTATTCTGT  
CTACACCATGATGAGAGCCCATTACAGTTCGGCTCGGGGACAAAATTGGAAATA  
AA

FIG. 7B

501.1 Heavy chain:

ATGGCTTGGGTGTGGACCTTGCTGTTCTGATGGCAGCTGCCCAAAGTGCCCAAG  
CACAGATCCAGTTGGTGCAGTCTGGACCTGAGCTGAAGAAGCCTGGAGAGACAG  
TCCAGATCTCCTGCAAGGCTTCTGGCTATATCTTCACAGACTATGGAATGAACTG  
GGTGAACACAGGCTCCAGGAAAGGGTTTAAATGGATGGGCTGTATAAACACCTA  
CACTGGAGAGACAATATATAGTGATGACTTCAGGGGACGGTTTGCCATCTCTTTG  
GAAACCTCTGCCAGCACTGCCTTTATTTCAGATCAACAACCTCAAAAATGAGGACG  
CGGCAACATATTTCTGTGCAAGGGGAAATTACAGGGATGCTATTGACTATTGGGG  
TCAAGGAACCTCAGTCACCGTCTCCTCA

FIG. 7C

501.1 Light chain:

MDMRAPAOFFGILLWEPGIRCDIKMTQSPSSYASLGERVTTTCKASODIKSYLSWY  
QOKPWEKPKTLIYYATILADGVPSRFSGSGSGQDYSLSLNSLESDDIATYFCLHHDESP  
EIPGSGTKLEI

FIG. 7D

501.1 Heavy chain:

MAWVWTLLEFLMAAAQSAQAQIQLVQSGPELKPKGETVQISCKASGYFTDYGMNW  
VKQAPGKGLKWMGCINTYTGETTYSDDFRGRFAISLETSASTAFIQINNLKNEDAATY  
FCARGNYRDAIDYWGGQTSVTVSS

FIG. 8A

776.1 Light chain:

ATGGATTTCAAGTGCAGATTTTCAGCTTCCTGCTAATCAGTGCCTCAGTCATAAT  
GTCCAGAGGACAAATTGTTCTCTCCAGTCTCCAGCAATCCTGTTTGCACTCTCA  
GGGAGACGGTCACAAATGACTTGCAGGGCCAGTTCAAGTGTAAATTACATGTGTT  
GGAATCAGCAGAAGCCAGGATCCTCCCCAAACCTGGATTATGGCACATCCA  
CCCTGGCTTCTGGAGTCCCTACTCGCTTCAGTGGCAGTGGGTCTGGGACCTCTTA  
CTCTCTCACAATCAGCAGAGTAGAGGCTGAAGATGCTGCCACTTATTACTGCCAG  
CAGTGGAGTAGTAACCCATTACGTTCCGGCTCGGGGACAAAGTTGGAAATAAA

FIG. 8B

776.1 Heavy chain:

ATGGGATGGAGCTGGATCTTTCCTCTCCTGTCAGGAACTGCAGGGCGTCCACT  
CTGAGGTCCAGCTTCAGCAGTCAGGACCTGAGCTGGTGAAAACCTGGGGCCTCAG  
TGAAGATATCCTGCAAGGCTTCTGGATACACATTCAGTACTACAACATTCAGTG  
GGTGAAACAGAGCCATGGAAAGATCCTTGAGTGGATTGGATATATTTATCTTAT  
AATGGTGTCTTCTGACTACAACCAGAAATTCAGAGCAAGGCCACATTGATTGTAG  
ACAATTCCTCCAACACAGCCTACATGGAACTCCGCAGCCTGACATCTGAGGACTC  
TGCAGTCTATTATTGTGCAAGATGGGACTTCGGTAGTGGCTACTACTTTGACTAC  
TGGGGCCAAGGCACCACTCTCACAGTCTCCTCA

FIG. 8C

776.1 Light chain:

MDFOVOIESELLISASVIMSRGQIVLSQSPAILFASPGETVTMTCRASSSVIYMCWNQQ  
KPGSSPKPWYGTSTLASGVPTRFSGSGSGTSYSLTISRVEAEDAATYYCQOWSSNPF  
TPGSGTKLEI

FIG. 8D

776.1 Heavy chain:

MGWSWIFLFLSGTAGVHSEVQLQQSGPELVKPGASVKISCKASGYTFIDYNI  
HWVKQSHGKILEWIGYIYPYNGVSDYNONEKSKATLIVDNSSNTAYMELRSLTSEDS  
AVYYCARWDFGSGYYFDYWGGQTTLTVSS



FIG. 9A

725.1 LC

ATGGATTTTCAAGTGCAGATTTTCAGCTTCCTGCTAATCAGTGCTTCAGTCATAAT  
GTCCAGAGGACAAATTATTCTCTCCAGTCTCCAGCAATCCTGTCTGCATCTCCA  
GGGGAGAAGGTCACAATGACTTGCAGGGCCAGTTCAAGTGTAAGTTCCATTAC  
TGGTACCAGCAGAAGCCAGAATCCTCCCCAAACCCTGGATTACGCCACATCCA  
ACCTGGCTTCTGGAGTCCCTGTTCGCTTCAGTGCCAGTGGGTCTGGGACCTCTTAT  
ACTCTACAATCAGCAGAATGGAGGCTGCAGATGCTGCCACTTATTACTGCCAGC  
AGTGGAGTATTGATCCAGCCACGTTCCGAGGGGGGACCAAGCTGGAAATAAA

FIG. 9B

725.1 HC

ATGGCTTGGGTTGGACCTTGCTATTCTGATGGCAGCTGCCCAAAGTGCCCAAG  
CACAGATCCAGTTGGTGCAGTCTGGACCTGAACTGAAGAAGCCTGGAGAGACAG  
TCAAGATCTCTGCAAGGCTTCTGGATATTCCTTCACAAACTATGGAATGAACTG  
GGTGAAGCAGGCTCCAGGGAAGGGTTTAAAGTGGATGGGCTGGATAAACGCCTA  
CATTGGAGAGCCAAACATATGCTGATGACTTCAAGGGACGATTTCCTTCTCTG  
GAAGCCTCTACCCACACTGCTATTTCAGATCAACAGCCTCAAAAAGTGAGGAC  
ACGGCTACATATTTCTGTGCAAGTGGGGGTAACCTCCCTGACTTTTGGGGCCAAG  
GCACCACTCTCACAGTCTCCTCAG

FIG. 9C

725.1 LC

MDFOVOIESELLISASVIMSRGQILSQSPAILSASPGEKVTMTCRASSVSSIHWYQQK  
PESSPKPWYATSNLASGVPVRFSGSGSTSYTLTISRMEAADAATYYCQOWSIDPAT  
FGGGTKLEI

FIG. 9D

725.1 HC

MAWVWTLLEFLMAAAQSAQAQIQLVQSGPELKKPGETVKISCKASGYSETNYGMNW  
VKQAPGKGLKWMGWINAYIGEPTYADDFKGRFAFSLEASTHTAYLQINSLKSEDTA  
TYFCASGGNSLDFWGGQTTLTVSS

FIG. 10A

16H9 LC

ATGGATTTTCAGGTGCAGATTTTCAGCTTCCTGCTAATCAGTGCCTCAGTCATAAT  
GTCCAGAGGACAAATTGTTCTCACCCAGTCTCCAGCAATCATGTCTGCATCTCTA  
GGGGAACGGGTCACCATGACCTGCACTGCCAGCTCAAGTGTAAGTTCCAGTTACT  
TGCACTGGTACCAGCAGAAGCCAGGATCCTCCCCAAACTCTGGATTATAGCAC  
ATCCAACCTGGCTTCTGGAGTCCAGCTCGTTTCAAGTGGCAGTGGGTCTGGGACC  
TCTTACTCTCTCACAATCAGCAGCATGGAGGCTGAAGATGCTGCCACTTATTACT  
GCCACCAGTATCATCGTTCCCATTCACGTTCCGGCTCGGGGACAAAGTTGGAAT  
AAA

FIG. 10B

16H9 HC

ATGAAATGCAGCTGGGTTATCTTCTTCCTGATGGCAGTGGTTACAGGGGTCAATT  
CAGAGGTTTCAGCTGCAGCAGTCTGGGGCAGAGCTTGTGAAGCCAGGGGCCTCAG  
TCAAGTTGTCCTGCACAGCTTCTGGCTTCAACATTAAAGACACCTATATGCACTG  
GGTGAAGCAGAGGCCTGAACAGGGCCTGGAGTGGATTGGAAGGATTGATCCTGC  
GAATGGTAATACTAAATATGACCCGAAGTTCAGGGCAAGGCCACTATAACAGC  
AGACACATCCTCCAACACAGCCTACGTGCAGCTCAGCAGCCTGACATCTGAGGA  
CACTGCCGTCTATTACTGTGCTAGTAGTGACATCTACTATGGTAACCCCGGGGGG  
TTTGCTTACTGGGGCCAAGGGACTCTGGTCACTGTCTCTGCA

FIG. 10C

16H9 LC

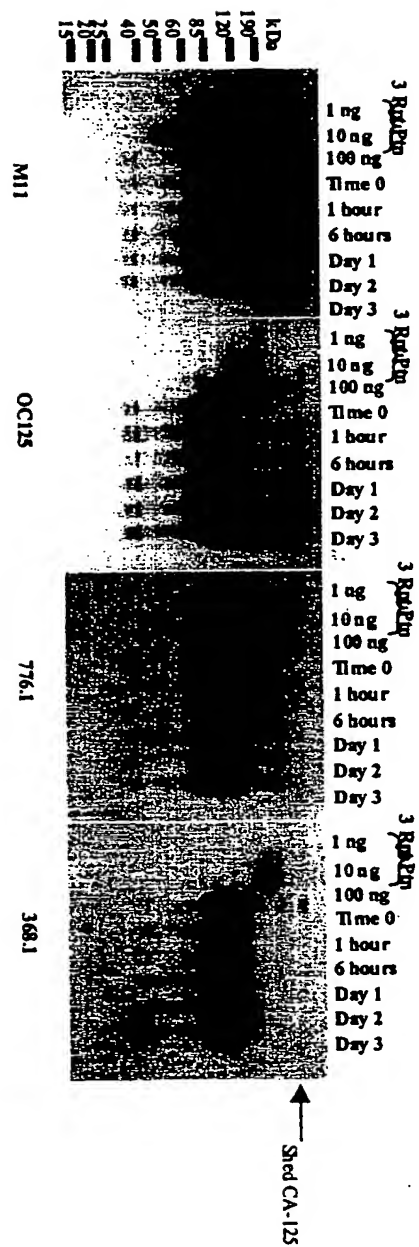
MDFOVOIESELLISASVIMSRGQIVLTQSPAIMSASLGERVTMTCTASSSVSSSYLHWY  
QKPGSSPKLWIYSTSNLASGVPARFSGSGSGTSYSLTISSMEAEADAATYYCHOYHRS  
PTTFGSGTKLEI

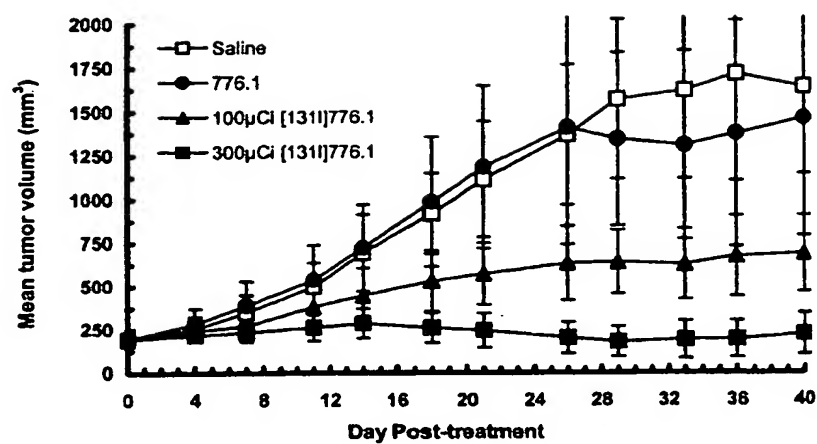
FIG. 10D

16H9 HC

MKCSWVIEFLMAVVTGVNSEVQLQQSGAELVKPGASVKLSCTASGENIKDTYMHW  
VKQRPQGLEWIGRIDPANGNTKYDPKFOGKATTTADTSSNTAYVQLSSLTSEDYAV  
YYCASSDIYYGNPGGRAYWGQGLVTVSA

## Figure 11



**Figure 12**